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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,561	06/19/2006	Rasmus Breivik	H0610.0406/P406	8888
24998 7590 92/27/2009 DICKSTEIN SHAPIRO LLP 1825 EYE STREET NW			EXAMINER	
			BUSHEY, CHARLES S	
Washington, DC 20006-5403			ART UNIT	PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
			02/27/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/583,561 BREIVIK, RASMUS Office Action Summary Examiner Art Unit Scott Bushev 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 6-19-06.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
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Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Specification

- The abstract of the disclosure is objected to because legal phraseology, i.e., "comprising", "consists of" and "comprises", should be avoided in the abstract.
 Correction is required. See MPEP § 608.01(b).
- 3. The disclosure is objected to because of the following informalities: On page 5, lines 7-8 should be replaced by language indicative of Figures 2A, 2B, and 2C, which appear in the drawings of the application, but are not referred to in the brief description of the drawings.

Appropriate correction is required.

4. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The specification should be amended to include the following phrase, which appears in the claims, but is not found within the specification, as originally filed, "each up-flow leg is non-concentric with respect to the down-flow leg".

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Muller

Muller (Figs. 1, 9A-9C, 10A, and 10B; col. 5, lines 20-22; col. 9, lines 31-55) disclose several alternative embodiments of a liquid-vapor distribution device including an elongated down-flow leg that is flanked by one or more non-concentrically arranged up-flow legs, the flow transition area between the up-flow zones and the down-flow zones having in at least one embodiment, an impingement plate bluff body (7) for facilitating smooth multi-phase flow through the transition zone and subsequently through the plate perforation (12,12") via the down-flow leg (11,11"). It would have been obvious for an artisan at the time of the invention, to provide the embodiments of the reference, which include polygonal, non-concentric up-flow legs adjacent to the polygonal down-flow leg, with an impingement plate bluff body within the transition zone of the device, in view of the teaching within the same reference that such a structure is utilized within non-polygonal vapor lift tubes to facilitate smooth multi-phase flow through the device. Furthermore, it would have been obvious for an artisan at the time of the invention, to modify the shape or specific placement of the bluff body element as taught by Muller within the transition zone, so as to facilitate the smoothest possible flow Art Unit: 1797

through the device, such shape or placement modifications rendering obvious the device as recited by instant claims 2-4. It is noted that the instant application has not provided any specific language as to the advantages gleaned from specific shapes or placement of the bluff bodies within the claimed device.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Bushey whose telephone number is 571 272-1153. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Scott Bushey Primary Examiner Art Unit 1797

/S. B./ 2-25-09

/Scott Bushey/ Primary Examiner, Art Unit 1797